



Product Information Sheet

Polyclonal Anti-Lamin β

Catalogue No. PA1048

Lot No. 0101012034818

Ig type: rabbit IgG

Size: 100 μ g/vial

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

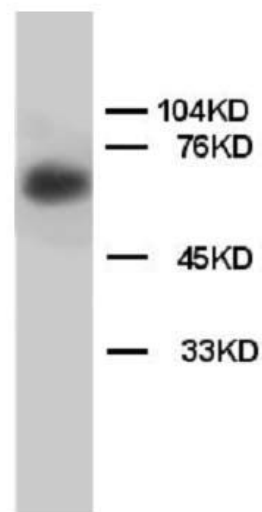
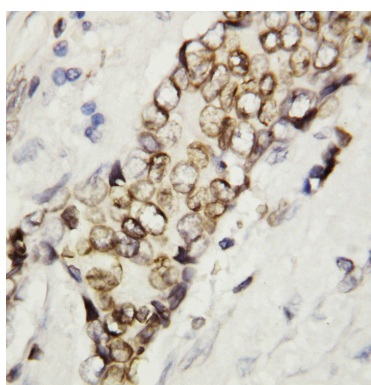
Recommended application

Western blot

Immunohistochemistry(P)

Immunohistochemistry(F)

Immunocytochemistry



Immunogen

A synthetic peptide corresponding to a sequence at the C-terminal of human Lamin B (570-586 aa), different from rat sequence by one amino acid, mouse sequence by three amino acids.

Purity

Immunogen affinity purified.

Application

Western blot

At 1 μ g/ml with the appropriate system to detect Lamin B in cells and tissues.

Immunohistochemistry(P)

At 1 μ g/ml to detect Lamin B in formalin fixed and paraffin embedded tissues. Boiling the sections is required.

Immunohistochemistry(F)

At 1 μ g/ml to detect Lamin B in formalin or acetone fixed tissues.

Immunocytochemistry

At 1 μ g/ml to detect Lamin B in acetone fixed cell. Antigen retrieval by Pepsin and Trypsin is required.

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg

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Antagene, Inc.

Toll Free: 1(866)964-2589

email: Info@antageneinc.com

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.

Thimerosal, 0.05mg NaN₃.

Storage

Reconstitution

0.2ml of distilled water will yield
a concentration of 500µg/ml.

At -20°C for one year. After reconstitution, at 4°C for one month. It can
also be aliquotted and stored frozen at -20°C for longer time.

BACKGROUND

Lamins are the major components of the nuclear lamina which underlies the nuclear envelope of eukaryotic cells. lamin B is a structural component of the long-sought-after spindle matrix that promotes microtubule assembly and organization in mitosis. Inspection of the deduced amino acid sequence of lamin B revealed the presence in coil 1B of the alpha-helical domain of a leucine heptad repeat region. Lamin B assembled into a matrix-like network in mitosis through a process that depended on the presence of the guanosine triphosphate-bound form of the small guanosine triphosphatase Ran.

REFERENCE

1. Pollard, K. M.; Chan, E. K.; Grant, B. J.; Sullivan, K. E.; Tan, E. M.; Glass, C. A. : In vitro posttranslational modification of lamin B clones from a human T-cell line. *Molec. Cell. Biol.* 10: 2164-2175, 1990
2. Tsai, M.-Y.; Wang, S.; Heidinger, J. M.; Shumaker, D. K.; Adam, S. A.; Goldman, R. D.; Zheng, Y. : A mitotic lamin B matrix induced by RanGTP required for spindle assembly. *Science* 311: 1887-1893, 2006.